

In the Claims

Claims 1, 3, 4, 6, 7, 9, 10, 12, 13, 15, 16, 18-22, 24, 25, 27, 28, 30, 31, 33-37 and 39 are amended.

Claims 1-39 are pending and are listed below.

1. (Currently Amended) A multi-media processing method comprising:
providing multiple tracks each of which being capable of being associated
with one or more digital data streams;
representing the multiple tracks as a single track; and
processing the digital data associated with the single track using a
programmable software-implemented matrix switch in which multiple inputs can
be routed to multiple outputs, the quantity of multiple inputs and the quantity of
multiple outputs being scalable.

2. (Original) The method of claim 1, wherein said act of representing
comprises representing at least one transition between at least two of the multiple
tracks.

3. (Currently Amended) One or more computer-readable storage
media having computer-readable instructions thereon which, when executed,
implement the method of claim 2.

4. (Currently Amended) A computer system embodying the
computer-readable storage medium of claim 3.

1 5. (Original) The method of claim 1, wherein said act of
2 representing comprises representing at least one effect applied to at least one of
3 the multiple tracks.

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5 6. (Currently Amended) One or more computer-readable storage media
6 having computer-readable instructions thereon which, when executed, implement
7 the method of claim 5.

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9 7. (Currently Amended) A computer system embodying the computer-
10 readable storage medium of claim 6.

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12 8. (Original) The method of claim 1, wherein said act of
13 representing comprises representing at least one transition between at least two of
14 the multiple tracks and at least one effect applied to at least one of the multiple
15 tracks.

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17 9. (Currently Amended) One or more computer-readable storage
18 media having computer-readable instructions thereon which, when executed,
19 implement the method of claim.

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21 10. (Currently Amended) A computer system embodying the computer-
22 readable storage medium of claim 9.

11. (Original) The method of claim 1, further comprising operating upon said single track by applying at least one transition between at least two of the multiple tracks.

12. (Currently Amended) One or more computer-readable storage media having computer-readable instructions thereon which, when executed, implement the method of claim 11.

13. (Currently Amended) A computer system embodying the computer-readable storage medium of claim 12.

14. (Original) The method of claim 1 further comprising operating upon said single track by applying at least one effect to at least one of the multiple tracks.

15. (Currently Amended) One or more computer-readable storage media having computer-readable instructions thereon which, when executed, implement the method of claim 14.

16. (Currently Amended) A computer system embodying the computer-readable storage medium of claim 15.

17. (Original) The method of claim 1, further comprising operating upon said single track by applying at least one transition between at least two of the multiple tracks, and at least one effect to at least one of the multiple tracks.

18. (Currently Amended) One or more computer-readable media having computer-readable instructions stored thereon which, when executed, implement the method of claim 17.

19. (Currently Amended) A computer system embodying the computer-readable storage medium of claim 18.

20. (Currently Amended) One or more computer-readable storage media having computer-readable instructions thereon which, when executed, implement the method of claim 1.

21. (Currently Amended) A computer system embodying the computer-readable storage medium of claim 20.

1 22. (Currently Amended) A method comprising:
2 providing multiple tracks each of which being capable of being associated
3 with one or more digital data streams;
4 grouping a particular set of operations on the tracks to provide a group
5 upon which operations can be performed that do not affect tracks that are not in
6 the group;
7 wherein said grouping comprises defining a first hierarchical tree structure
8 that represents a media project of which the tracks comprise a part; and
9 using the hierarchical tree structure to program a software-implemented
10 matrix switch configured to process content of said tracks, the matrix switch being
11 configured to route a scalable number of inputs to a scalable number of outputs.

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13 23. (Original) The method of claim 22 further comprising operating on
14 said tracks using said particular set of operations.

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16 24. (Currently Amended) One or more computer-readable storage
17 media having computer-readable instructions thereon which, when executed,
18 implement the method of claim 0.

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20 25. (Currently Amended) A computer system embodying the computer-
21 readable storage medium of claim 24.

1 26. (Original) The method of claim 22 further comprising operating on
2 said tracks using said particular set of operations, wherein said particular set of
3 operations comprise at least an effect.

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5 27. (Currently Amended) One or more computer-readable storage
6 media having computer-readable instructions thereon which, when executed,
7 implement the method of claim 26.

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9 28. (Currently Amended) A computer system embodying the computer-
10 readable storage medium of claim 27.

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12 29. (Original) The method of claim 22 further comprising operating on
13 said tracks using said particular set of operations, wherein said particular set of
14 operations comprise at least a transition.

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16 30. (Currently Amended) One or more computer-readable storage media
17 having computer-readable instructions thereon which, when executed, implement
18 the method of claim 29.

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20 31. (Currently Amended) A computer system embodying the computer-
21 readable storage medium of claim 30.

1 32. (Original) The method of claim 22 further comprising operating on
2 said tracks using said particular set of operations, wherein said particular set of
3 operations comprise at least an effect and a transition.

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5 33. (Currently Amended) One or more computer-readable storage
6 media having computer-readable instructions thereon which, when executed,
7 implement the method of claim 32.

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9 34. (Currently Amended) A computer system embodying the computer-
10 readable storage medium of claim 33.

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12 35. (Currently Amended) One or more computer-readable storage
13 media having computer-readable instructions thereon which, when executed,
14 implement the method of claim 22.

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16 36. (Currently Amended) A computer system embodying the computer-
17 readable storage medium of claim 35.

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19 37. (Currently Amended) A data structure embodied on a computer
20 readable storage medium, the data structure comprising:

21 one or more portions associated with at least one track of a multi-media
22 editing project, individual tracks being associated with one or more data stream
23 sources; and

24 one or more portions associated with a composite, the composite
25 comprising at least one track, said data structure being configured for use in

1 programming a software-implemented matrix switch which is configured to
2 provide a data stream defined by the multi-media editing project, the matrix switch
3 being configured to route a scalable number of inputs to a scalable number of
4 outputs.

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6 38. (Original) The data structure of claim 37 further comprising one or
7 more portions associated with a composite that is nested inside of another
8 composite.

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10 39. (Currently Amended) A computer system embodying the computer-
11 readable storage medium of claim 37.
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